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The measures which it is believed to be necessary for our universities to adopt to realize these ends—measures which have already been adopted in part by some institutions—are four:

A. *Action by Faculty Committees on Reappointments.*—Official action relating to reappointments and refusals of reappointment should be taken only with the advice and consent of some board or committee representative of the faculty. Your committee does not desire to make at this time any suggestion as to the manner of selection of such boards.

B. *Definition of Tenure of Office.*—In every institution there should be an unequivocal understanding as to the term of each appointment; and the tenure of professorships and associate professorships, and of all positions above the grade of instructor after ten years of service, should be permanent (subject to the provisions hereinafter given for removal upon charges). In those state universities which are legally incapable of making contracts for more than a limited period, the governing boards should announce their policy with respect to the presumption of reappointment in several classes of position, and such announcements, though not legally enforceable, should be regarded as morally binding. No university teacher of any rank should, except in cases of grave moral delinquency, receive notice of dismissal or of refusal of reappointment, later than three months before the close of any academic year, and in the case of teachers above the grade of instructor, one year's notice should be given.

C. *Formulation of Grounds for Dismissal.*—In every institution the grounds which will be regarded as justifying the dismissal of members of the faculty should be formulated with reasonable definiteness; and in the case of institutions which impose upon their faculties doctrinal standards of a sectarian or partisan character, these standards should be clearly defined and the body or individual having authority to interpret them, in case of controversy, should be designated. Your committee does not think it best at this time to attempt to enumerate the legitimate grounds for dismissal, believing it to be preferable that individual institutions should take the initiative in this.

D. *Judicial Hearings Before Dismissal.*—Every university or college teacher should be entitled, before dismissal¹ or demotion, to have the charges

¹ This does not refer to refusals of reappointment at the expiration of the terms of office of teachers below the rank of associate professor. All

against him stated in writing in specific terms and to have a fair trial on those charges before a special or permanent judicial committee chosen by the faculty senate or council, or by the faculty at large. At such trial the teacher accused should have full opportunity to present evidence, and, if the charge is one of professional incompetency, a formal report upon his work should be first made in writing by the teachers of his own department and of cognate departments in the university, and, if the teacher concerned so desire, by a committee of his fellow specialists from other institutions, appointed by some competent authority.

SCIENTIFIC NOTES AND NEWS

AT the meeting of the Society of American Bacteriologists held at the University of Illinois at the end of December, Dr. Thomas J. Burrill, formerly vice-president of the university, was elected president of the society for the coming year.

DR. A. O. LOVEJOY, of the Johns Hopkins University, was elected president of the American Philosophical Association at the meeting held recently in Philadelphia.

DEAN FREDERICK J. WULLING, of the college of pharmacy of the University of Minnesota, has been elected president of the American Pharmaceutical Association.

AT the annual meeting of the Cosmos Club, Washington, D. C., on January 10, Dr. Hugh M. Smith, U. S. commissioner of fisheries, was elected president for the year 1916.

SIR ARCHIBALD GEIKIE, the distinguished geologist, celebrated his eightieth birthday on December 28.

THE ministry of public instruction of the French government has selected Dr. Wallace Clement Sabine, Hollis professor of mathematics and natural philosophy at Harvard University, as exchange professor with France for 1916-17. His term of service will fall in the winter semester and will be spent at the University of Paris.

DR. O. VAN DER STRICHT, professor of histology and embryology, University of Ghent, Belgium, has arrived from Holland to accept such questions of reappointment should, as above provided, be acted upon by a faculty committee.

the post of fellow in cytology in the medical school, Western Reserve University. Professor Van der Stricht will devote his time to research.

THE Perkin medal of the Society of Chemical Industry will be presented to Dr. L. H. Baekeland on the evening of January 21 at a meeting held at Rumford Hall, the Chemists' Club, New York City. The address of presentation will be made by Dr. Charles F. Chandler, senior American past-president of the Society of Chemical Industry.

At the fifteenth annual meeting of the American Philosophical Association held at the University of Pennsylvania on December 28, 29 and 30, in honor of Professor Josiah Royce, of Harvard University, and, in celebration of his sixtieth birthday, the afternoon session on Tuesday and morning session of Wednesday were devoted to the reading and discussion of papers on his philosophy. The speakers at these sessions were Drs. John Dewey, H. H. Horne, R. C. Cabot, J. W. Hudson, M. W. Calkins, E. G. Spaulding, W. H. Sheldon, E. E. Southard and C. M. Bakewell. At the annual banquet on Wednesday evening the guest of honor was Professor Royce, who made the only address.

At the two hundred and ninety-first regular meeting of the Entomological Society of Washington the constitution was amended so as to permit the election of an honorary president, such office to be tendered only to active members who have been especially prominent in the affairs of the society and to convey with it expressions of gratitude, respect and honor. After creating this office, the society elected unanimously Mr. E. A. Schwarz as first honorary president. Mr. Schwarz was one of the charter members of the society, has held the office of president for two terms, vice-president for a number of terms and secretary for a number of terms and has taken an active interest in the affairs of the society. He has attended every meeting of the society when he has been in Washington, has contributed greatly to its financial support and has entertained the society more than any other mem-

ber. He is an internationally recognized authority on Coleoptera and has contributed materially to the advancement of his favorite group and also to the general science of entomology.

At the seventh annual meeting of the American Phytopathological Society, held at Columbus, Ohio, from December 28 to 31, the following officers were elected: *President*, Dr. Erwin F. Smith, Bureau of Plant Industry, Washington, D. C.; *Vice-president*, Dr. Mel. T. Cook, New Jersey Agricultural Experiment Station, New Brunswick, N. J.; *Secretary-Treasurer*, Dr. C. L. Shear, Bureau of Plant Industry, Washington, D. C.; *Councilor*, Dr. F. D. Kern, Pennsylvania State College, State College, Pa. Dr. E. C. Stakman, Minnesota Agricultural College, Minneapolis, Minn., was elected a member of council vice Dr. Mel. T. Cook. Dr. W. A. Orton was elected one of the chief editors of *Phytopathology*, and Professor H. T. Gussow, Dr. C. W. Edgerton, Dr. E. C. Stakman and Dr. V. B. Stewart were elected associate editors.

At the annual meeting of the American Anthropological Association held in Washington, D. C., December 27-31, the following officers were elected for the year 1916: *President*, F. W. Hodge, Bureau of American Ethnology, Washington, D. C.; *Secretary*, George Grant MacCurdy, Yale University, New Haven, Conn.; *Treasurer*, Neil M. Judd, U. S. National Museum, Washington, D. C.; *Editor*, Pliny E. Goddard, American Museum of Natural History, New York, N. Y.

DEAN HASKELL, of the college of civil engineering of Cornell University, has been appointed a member of a board of consulting engineers which is to advise State Engineer Williams about the work of completing the New York barge canal.

THE directors of the port of Boston have requested Professor C. M. Spofford, of the Massachusetts Institute of Technology, to act with Mr. Guy C. Emerson and the engineer of the board, Mr. F. W. Hodgdon, as consulting engineers on the construction of the great new dry dock. Already the port directors had

made arrangements with Professor E. F. Miller, head of the department of mechanical engineering, for the testing of materials to be used in construction.

DR. LYSANDER P. HOLMES, of the health department of New York City, has been appointed third assistant superintendent in the John Hopkins Hospital.

DR. GAIVUS E. HARMON, instructor in hygiene and preventive medicine in the medical school of Western Reserve University, has been appointed assistant registrar of the Bureau of Vital Statistics to the Cleveland City Division of Health.

ON December 15, 1915, Dr. C. Stuart Gager addressed the Rhode Island Horticultural Society, at Providence, on the effects of electricity and radium-rays on the growth of plants.

THE Royal Institution, following an example set by many theaters in London, has arranged that for the present the discourses usually given on Friday evening shall be delivered at 5.30 P.M. The first was announced for January 21 by Sir James Dewar, on problems in capillarity; the second, by Dr. Leonard Hill on January 28, on the science of clothing and the prevention of trench feet; and the third, by Professor William Bateson, on February 4, on fifteen years of Mendelism.

A MEMORIAL service for the late Sir Henry Roscoe was held on December 22 at the Rosslyn Hill Unitarian Chapel. We learn from *Nature* that the Royal Society was represented by the president—Sir J. J. Thomson—Professor Arthur Schuster, Sir Edward Thorpe and Professor Smithells; University College (University of London) by the vice-chancellor, Sir Alfred P. Gould, Sir Thomas Barlow, Professor M. J. M. Hill (chairman of the academic council) and Dr. Gregory Foster (the provost); the Victoria University of Manchester by the vice-chancellor, Sir Henry Miers and Professor H. B. Dixon; the Chemical Society by Dr. Smiles and Professor J. C. Philip (secretaries), and Lieut.-Col. A. W. Crossley (foreign secretary); the Society of Chemical Industry by Sir Boverton Redwood and Mr. Watson Smith; the National Phys-

ical Laboratory by Dr. Glazebrook and Dr. Harker; the Lister Institute by Dr. Harden; the Royal Commissioners for the Exhibition of 1851 by Mr. Evelyn Shaw.

DR. B. L. MILLIKIN, M.D. (Pennsylvania, '79), former dean of the medical school, Western Reserve University, and senior professor of ophthalmology and senior consulting surgeon on eye diseases at Lakeside Hospital at the time of his death, died suddenly on January 6.

DR. GEORGE THOMAS JACKSON, formerly professor of dermatology at the College of Physicians and Surgeons, Columbia University, has died of pneumonia, at the age of sixty-four years.

DR. H. DEBUS, F.R.S., formerly professor of chemistry at the Royal Naval College, Greenwich, and lecturer on chemistry at Guy's Hospital, has died in his ninety-second year.

MR. W. RUPERT JONES, who was for forty years assistant librarian of the Geological Society of London, has died at the age of sixty years.

It is reported that the commonwealth of Australia is prepared to expend whatever sum is necessary to establish and administer an institution for the development of scientific and industrial research, even if the cost amounts to half a million pounds.

WORK is now under way for the completion of the laboratory building and first range of plant houses at the Brooklyn Botanic Garden. The completion of these buildings at this time was made possible by the donation, by three friends of the garden, of \$100,000 on the condition that a like sum be appropriated for the same purpose by the City of New York.

By resolution of the board of directors it has been decided to name the new building of the University of Pennsylvania Museum the "Charles Custis Harrison Hall." This part of the museum consists of a dome which is unique in American architecture. The dome is 100 feet in diameter and 120 feet in height. In the lower part is an auditorium seating 1,000. Above this is an exhibition room, 100

feet in height. This Harrison dome cost \$300,000, and will house some of the most important exhibits of the museum. It was named in honor of Dr. Harrison because its construction was largely due to his efforts.

THE collection of gem-stones formed by the late Sir Arthur H. Church has, in accordance with a wish expressed in his will, been presented by his widow to the trustees of the British Museum, and is now on exhibition in the recent addition case in the Mineral Gallery of the Natural History Museum at South Kensington. It comprises about two hundred selected and choice faceted stones, most of them mounted in gold rings.

MR. M. P. SKINNER, a member of the American Museum, has presented to the institution some valuable motion-picture films and photographs of animals of the Yellowstone Park, obtained during his twenty years' experience in that region.

LOANED temporarily to the Archeological Museum of the Ohio State University for use during the convention of the American Association for the Advancement of Science were three private archeological collections. The owners are Henry F. Buck and F. P. Hills, of Sandusky, and D. C. Matthews, of Cleveland. Many interesting and valuable specimens were included in these collections, and they were of especial importance from a collector's standpoint. "The university museum attracted great interest during the convention," said Curator W. C. Mills. "Collectors from all over the country keenly enjoyed the displays set forth, and displayed interest in the lectures and talks." The Hyde collection, which was donated to the museum some time ago, is now installed and on exhibition.

THE annual report of the committee on library of the New York Academy of Medicine, issued on January 1, shows a great decrease in the average of medical books published in Europe during 1915. During 1913 the academy received 704 French and German publications but during 1915 only 435.

AT the ninety-seventh convocation recently held at the University of Chicago twenty-five

students, nominated by the departments of science for evidence of ability in research work, were elected to the honorary scientific society of Sigma Xi.

ON January 7, twenty-nine members of the faculty of the University of Missouri, belonging to the departments of history, sociology, anthropology, philosophy, psychology, education, economics, political science, law, etc., met and organized a new professional fraternity, Alpha Zeta Pi (*Anthropos Zoon Politikon*), for the promotion of the social sciences. While the present organization is a purely local one, the organizers have had in mind the possibility of similar societies in various institutions of the country getting together and forming a national organization with the same purpose. Alpha Zeta Pi will attempt to do for the social sciences what Sigma Xi is doing for the natural sciences. Students who have distinguished themselves in the university by giving special promise of future achievement in the social sciences, will be stimulated by being elected student members of the fraternity, and may later be elected permanent members. Both student members and permanent members will have equal rights in the fraternity. The fraternity will meet every month for the discussion of scientific problems. At the next meeting, in February, the first election of students (both graduate and undergraduate) to membership in the fraternity will take place. The officers for the present academic year are: *President*, M. F. Meyer; *Vice-president*, C. A. Ellwood; *Secretary-Treasurer*, J. E. Wrench.

DR. JOHN G. BOWMAN, of Chicago, director of the American College of Surgeons, states that the college begins the new year with the announcement that it has obtained from its fellows an endowment fund of \$500,000, to be held in perpetuity, the income of which only is to be used in advancing the purposes of the college. The college has been in the process of formation for the last three years. It has a temporary office in Chicago and it is probable that permanent headquarters will be decided upon within a few days. The president

is Professor John Miller Turpin Finney, head of the surgical clinic of Johns Hopkins Hospital, Baltimore. It is modelled after the Royal College of Surgeons of England and has the support, it is said, of nearly all the leading surgeons in this country and Canada. "The college, which is not a teaching institution, but rather a society or a college in the original sense," Dr. Bowman says, "now lists about 3,400 fellows in Canada and in the United States."

DR. CHARLES P. STEINMETZ writes in the *Electrical World* that the Illuminating Engineering Society in 1916 celebrates the decennial of its existence. This will be an occasion to review and record what has been accomplished in the art and to initiate plans for future advance, and the society therefore expects a year of greater activity than ever before in all the field covered by it. The illuminating engineer has to deal not only with engineering, like other engineers—that is, with applied physics—but his work includes the problems and the knowledge of physiology and of psychology, is of importance to the ophthalmologist and to the sanitarian, and is closely related to that of the architect, the decorator and the constructor. It is one of the broadest fields of human activity, and it is hoped that the coming year will enable the society to produce a compendium of the entire field of the science and art of illumination and make it available to the practising engineer or architect as well as to the ophthalmologist, the college professor and the student. In celebration of the decennial of the society, a mid-winter convention will be held in February, with numerous technical papers, and the feature of this convention will be the acceptance of honorary membership in the society by the man who has made modern illuminating engineering possible, Thomas A. Edison.

In addition to the collection of 20,000 vertebrate and 140,000 invertebrate specimens brought from Africa by the Lang-Chapin expedition, the evidence in the shape of photographs by Mr. Lang and colored drawings by

Mr. Chapin is unusually varied and complete. Seven thousand photographs help to set forth the animal life of the Congo, as well as the industries, customs, art, ceremonies, amusements and mode of life of the natives; while the ethnological value of the work is supplemented by some seventy casts of heads which Mr. Lang was able to make through the consent of a tribe of Pygmies.

UNIVERSITY AND EDUCATIONAL NEWS

MR. GEORGE T. BAKER has made a further gift of \$50,000 to Cornell University.

BARNARD COLLEGE, Columbia University, has received \$100,000 from Mr. James Talcott for religious instruction.

A NEW chair at the University of Pennsylvania to be known as the Dr. Isaac Ott chair in physiology, has been endowed through the legacy received from the estate of Dr. Isaac Ott, M.D., '69, of Easton, Pa. The legacy is subject to a life interest of Katherine K. Ott. Dr. Ott, who was a member of the American Physiological Society and a fellow of the American Association for the Advancement of Science, had made important contributions to our knowledge of the physiology and pathology of the nervous system.

ANNOUNCEMENT has been made of a fund established by Samuel Mather, of Cleveland, to found a school for the graduate study of tuberculosis as a memorial to the late Dr. Edward L. Trudeau. The school will probably be located at Saranac Lake, N. Y., and courses will be offered to physicians who wish to become proficient in the diagnosis of tuberculosis. Cooperating agencies for special study will also be established in New York City.

ON the thirteen acres of land lying adjacent to the campus which Western Reserve University has purchased, the erection of a complete new medical institution is contemplated. The present downtown school and hospital sites it is said will eventually be abandoned. Upon the same campus will be housed the dental and possibly the pharmacy schools, which